
From: Archer, Spencer <Spencer.Archer@amecfw.com>
Sent: Tuesday, June 6, 2017 6:35 AM
To: Zion, Rodney E CIV USARMY CENWS (US)
Cc: Reitter, Eric T; Khan, Usman; garyfulton@ferconinc.com; Huffsmith, Randy; Projectmail - Bunker Hill CTP_USACE; Bevier, Marie L
Subject: [Non-DoD Source] Bunker Hill - CTP O&M Weekly Update
Attachments: Revised BHCTP Data.xls; 007 QC Inspection Report.pdf

Rod,

The weekly Bunker Hill Central Treatment Plant (CTP) and Kellogg Tunnel (KT) data package is attached for your review.

CTP Operations:

- Reactor pH: 8.50 standard units (a reduction in pH setpoint to 8.40 is being evaluated)
- Effluent Zinc (Average): 0.270 mg/L (n = 3, May 26 - 31)
- 006 Effluent Turbidity (Average): 0.75 NTU (n = 5, June 1 – June 5)
- Average Lime Usage (May 3 – May 31): 7.6 tons per day
- Running Average Lime Usage (June 1 – to date): 4.9 tons per day
- Flocculant Dosage: 1.5 mg/L

Kellogg Tunnel:

- KT Flow: Decreased to 1,840 gpm (Gravity flow 1,050 gpm, mine pool pumps 790 gpm)
- KT Zinc : 162 mg/L (n = 2, May 15 - 18)
- Based on a reduction in flow, it appears the mine owner turned off the mine pool pumps from June 3 10 am to June 4 3:30 pm
- It is AmecFW's understanding that the mine owner intend to keep the mine pool pumps running until further notice

Lined Pond:

- Current Volume: 2.0 MG

Additional Information:

- Lime Feed System B failed 06-04-17, the lime feed auger has failed. Lime feed system A was placed into service. Lime feed auger will be inspected as soon as operator manpower allows. Discrepancy report #007 was submitted with the June 4, 2017 daily QC report and also attached for review.
- Lime injection pipe #1 located at the Rapid Mix Tank has failed. Discrepancy report #006 is attached to the BHCTP Daily QC Report 06-02-17. The Pipe will be removed 06-06-17 and delivered to Mine Fabrication for a replacement quote.
- Lime silo B dust control system motor failed 5/25/17. Dust system A motor was moved to B system location, System A will remain out of service until a new motor is ordered and installed.
- #2 Lime slurry loop pipeline failed in silo A 05/26/17. A small 4" section of 3" piping was replaced and tested. Lime injection system #2 was placed back into service 05-31-17.
- #1 Lime slurry injection pump is leaking in the packing gland area. New packing gland material was installed 05-31-17. #1 Lime slurry injection pump is now in service as the secondary lime injection pump.

Let me know if you have any questions,

Thanks,

Spencer Thomas Archer, PE

Associate Project Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

10940 White Rock Road, Suite 190, Rancho Cordova, CA 95670, USA

D +1 916 853 8926 M +1 805 550 4050

spencer.archer@amecfw.com amecfw.com

This message is the property of Amec Foster Wheeler plc and/or its subsidiaries and/or affiliates and is intended only for the named recipient(s). Its contents (including any attachments) may be confidential, legally privileged or otherwise protected from disclosure by law. Unauthorised use, copying, distribution or disclosure of any of it may be unlawful and is strictly prohibited. We assume no responsibility to persons other than the intended named recipient(s) and do not accept liability for any errors or omissions which are a result of email transmission. If you have received this message in error, please notify us immediately by reply email to the sender and confirm that the original message and any attachments and copies have been destroyed and deleted from your system. If you do not wish to receive future unsolicited commercial electronic messages from us, **please forward this email to: unsubscribe@amecfw.com and include "Unsubscribe" in the subject line.** If applicable, you will continue to receive invoices, project communications and similar factual, non-commercial electronic communications.

Please click [Blockedhttp://amecfw.com/email-disclaimer](http://amecfw.com/email-disclaimer) for notices and company information in relation to emails originating in the UK, Italy or France.